



INVENTOR: REISING, BRIAN C.  
TITLE: "ORTHODONTIC BRACKET POSITIONING  
DEVICE AND METHOD"  
SERIAL NO.: 10/750,194; FILED: DECEMBER 31, 2003  
ATTY: JOHN W. GREENWALD; ATTY TEL: 770.984.2300  
1 OF 32  
REPLACEMENT SHEET

FIG.1

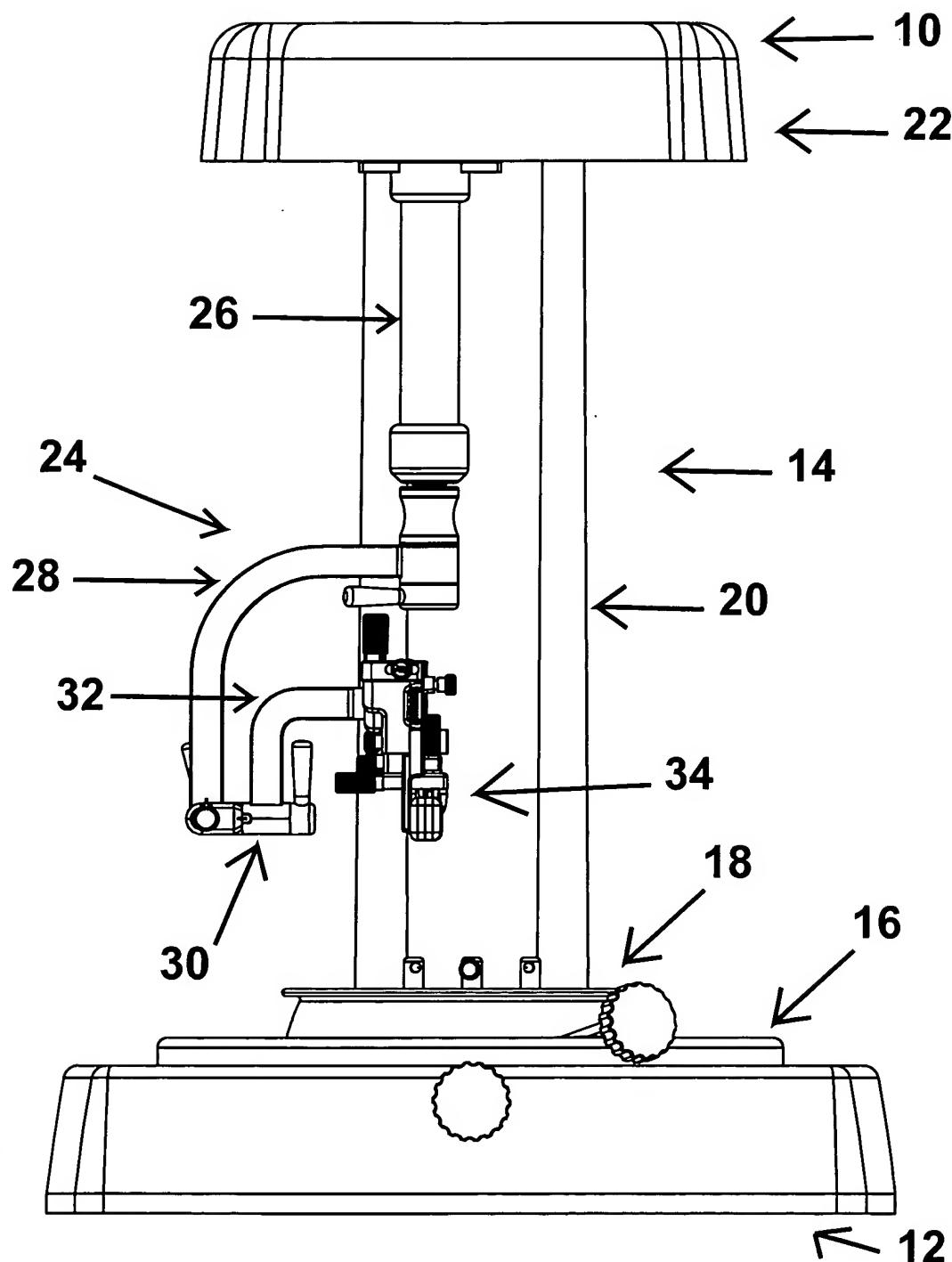


FIG.2

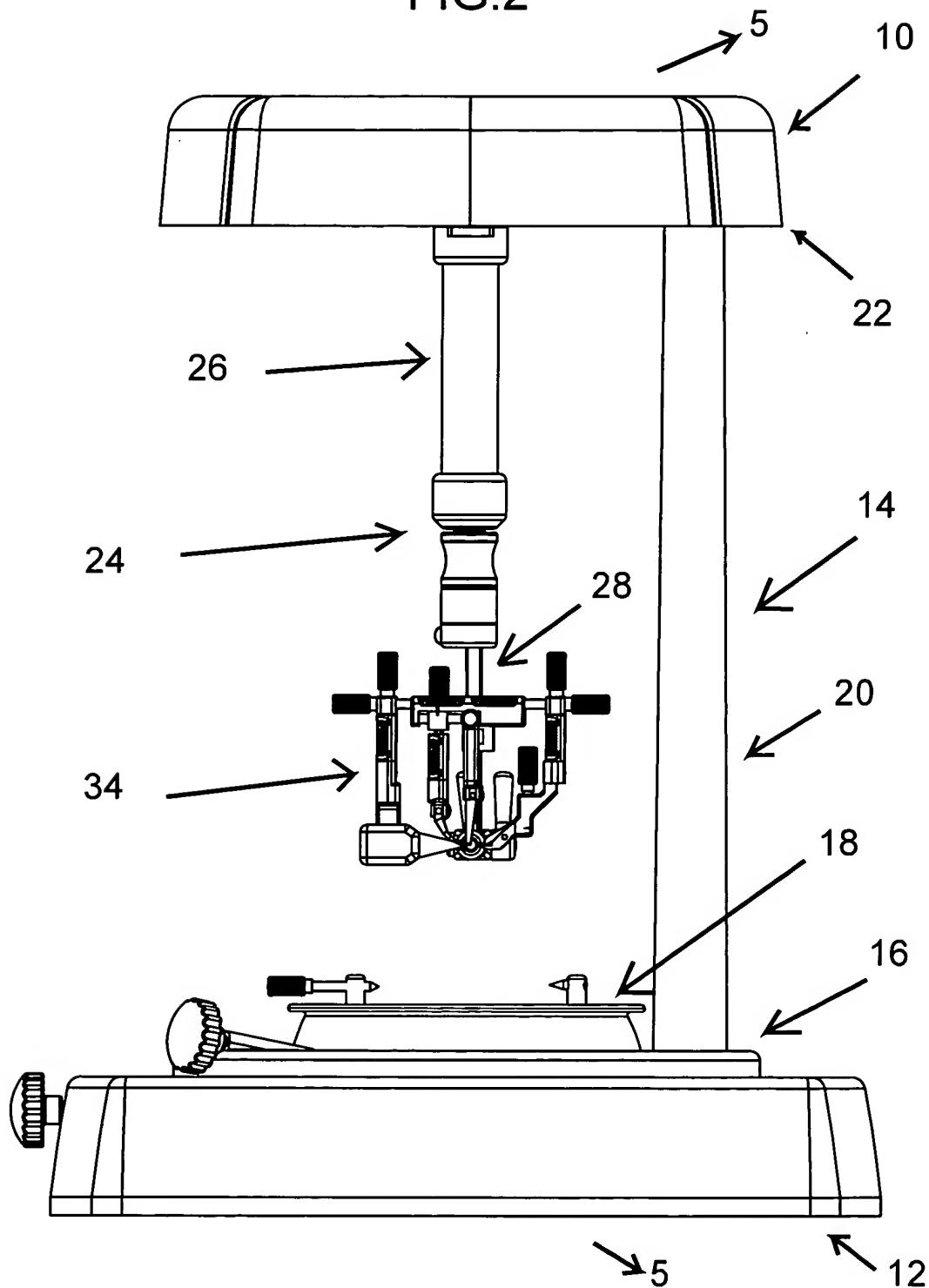


FIG.3

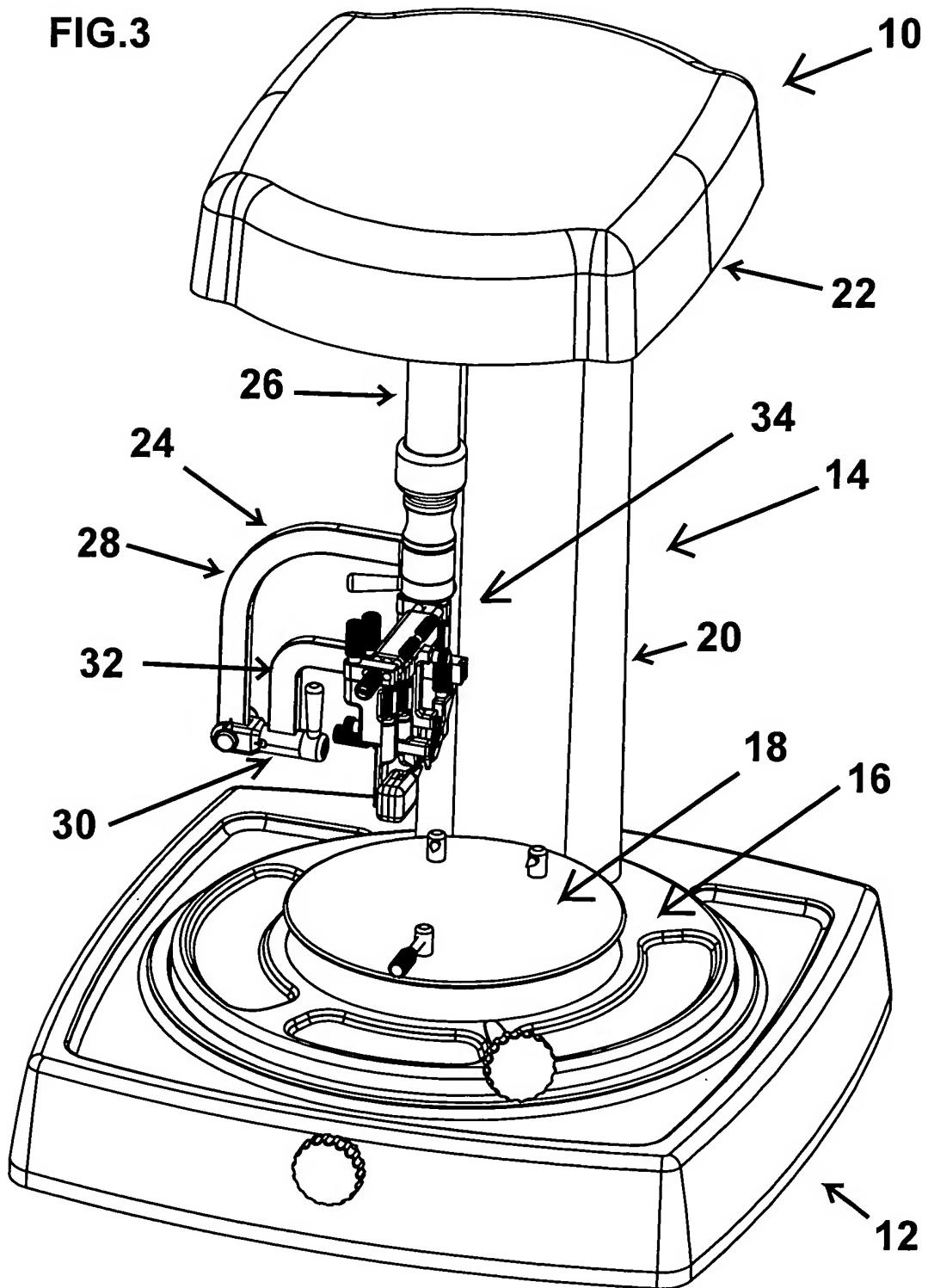


FIG.4

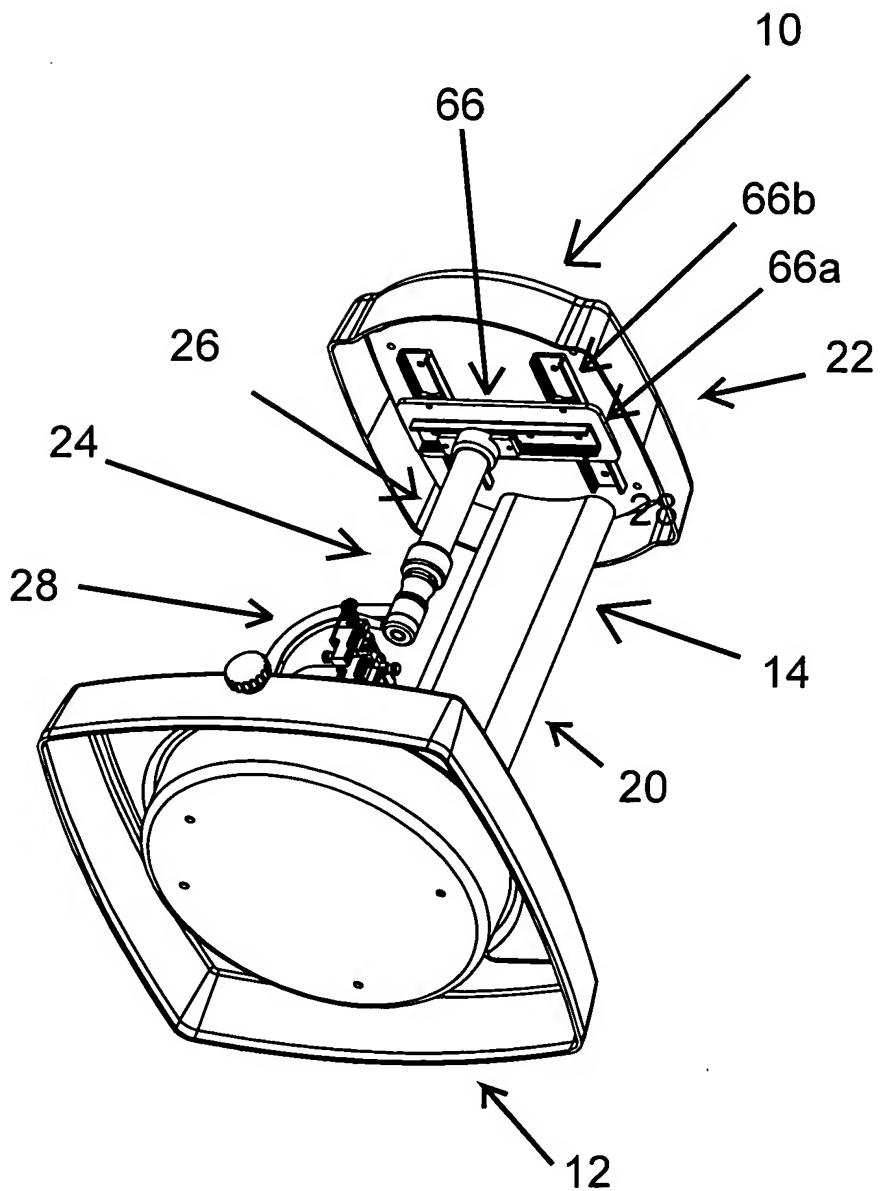


FIG.5

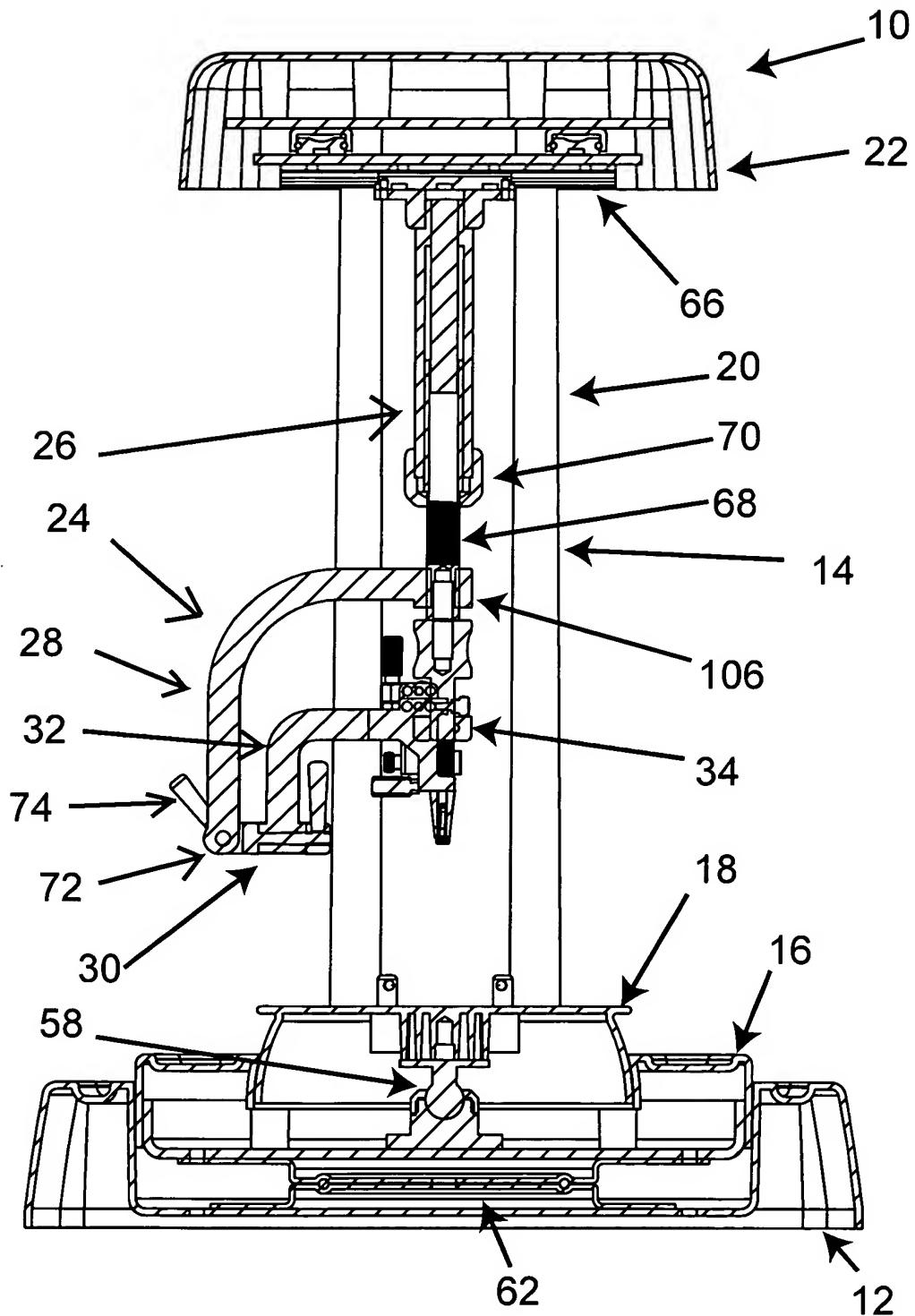


FIG.6

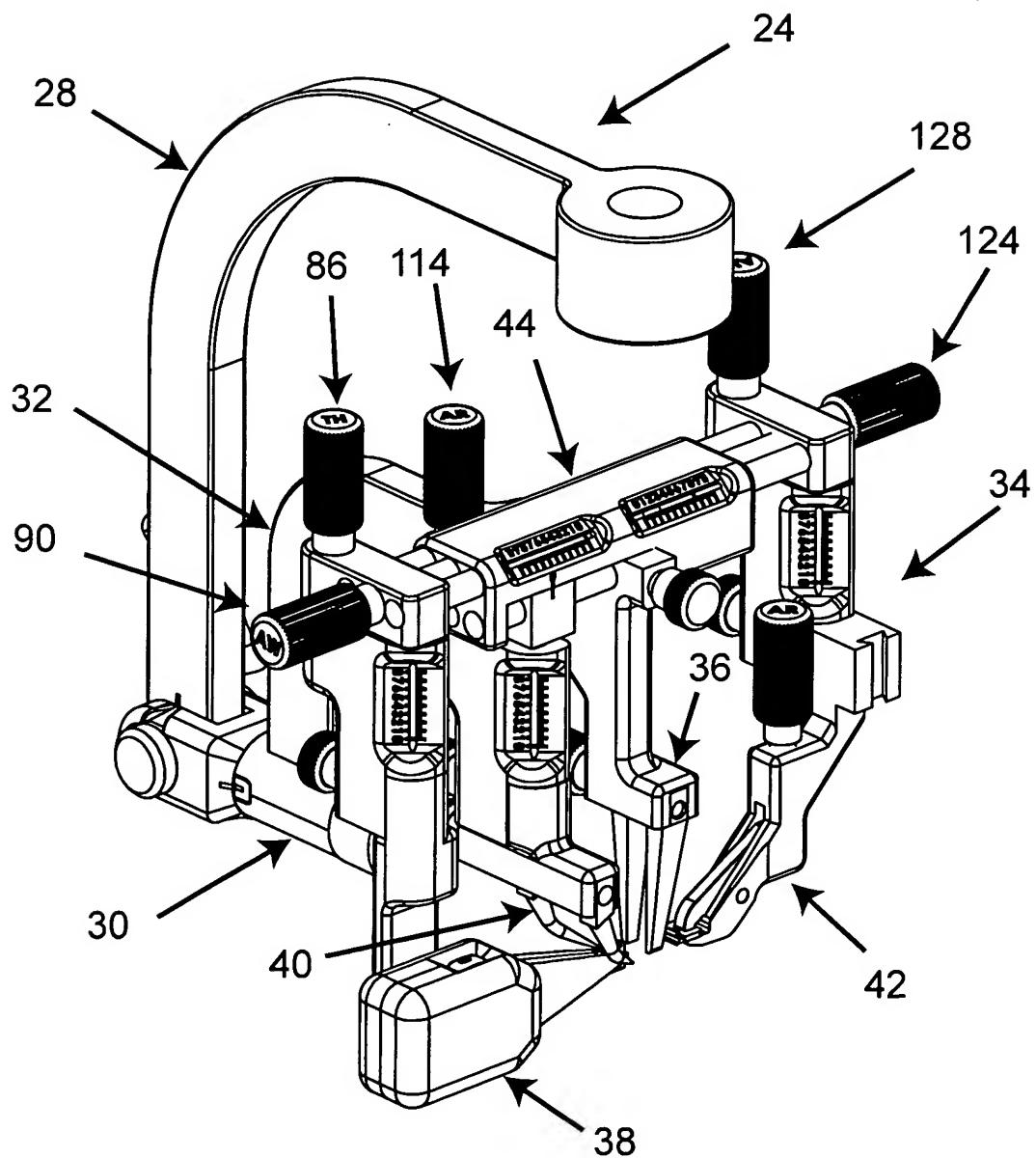


FIG.7

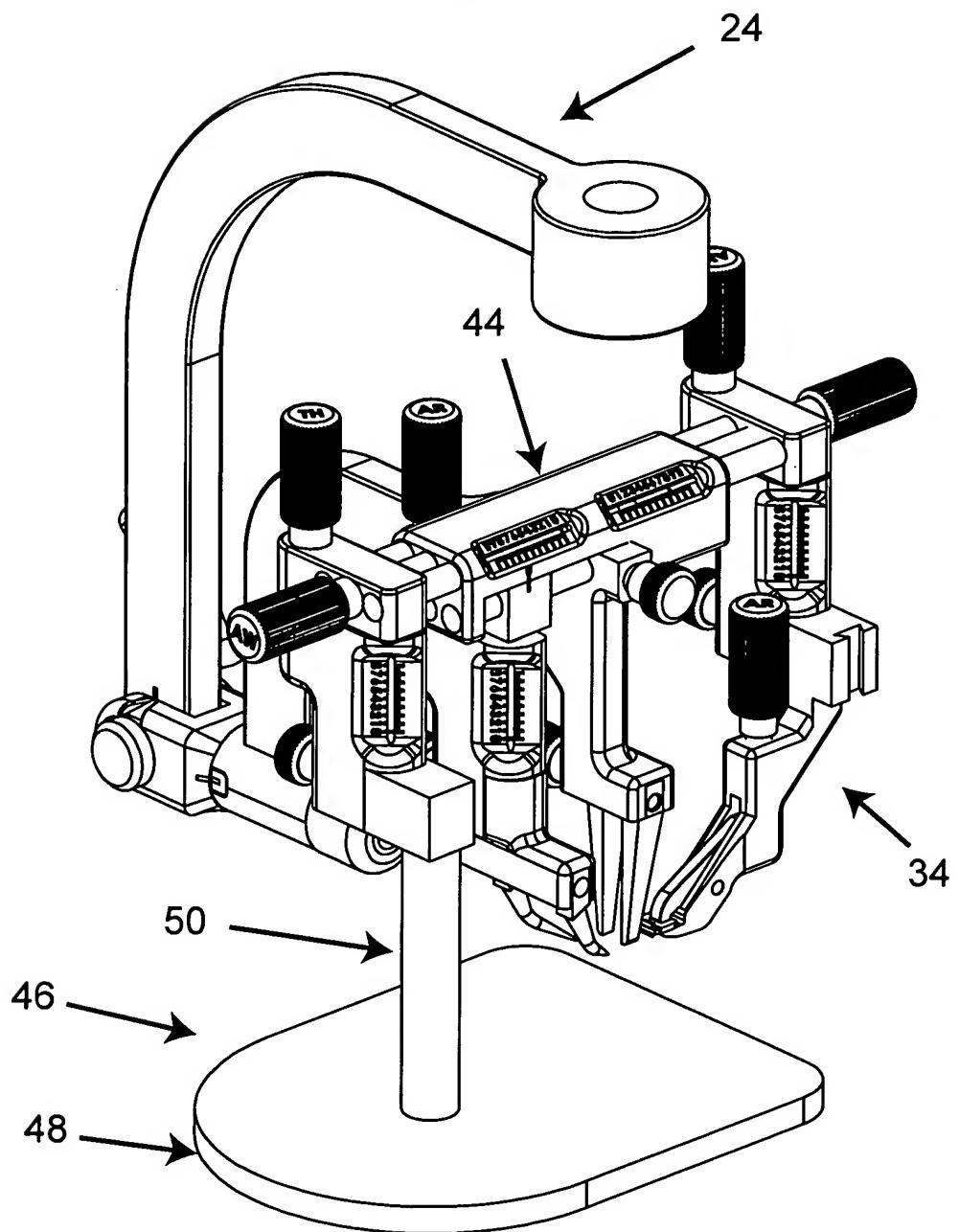


FIG.8

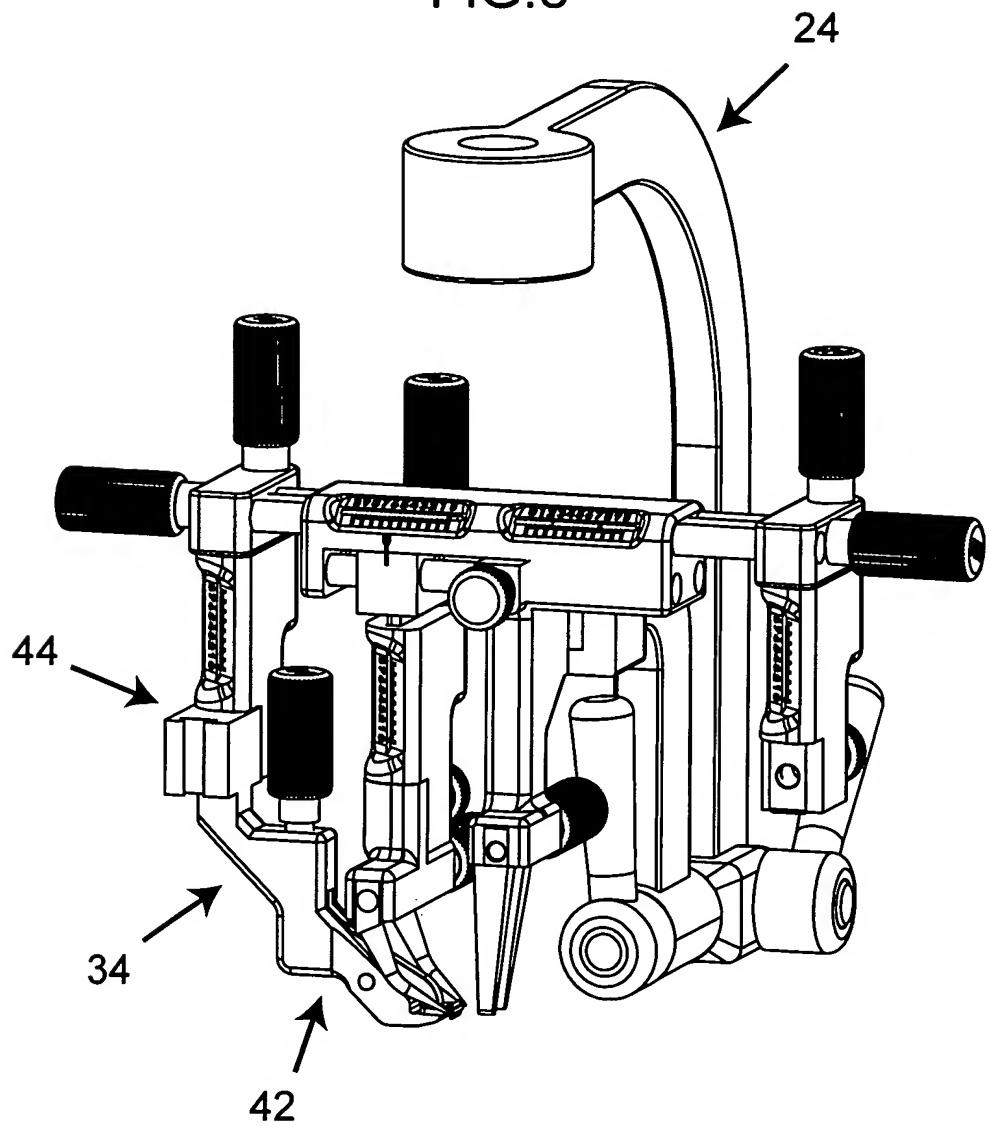


FIG.9

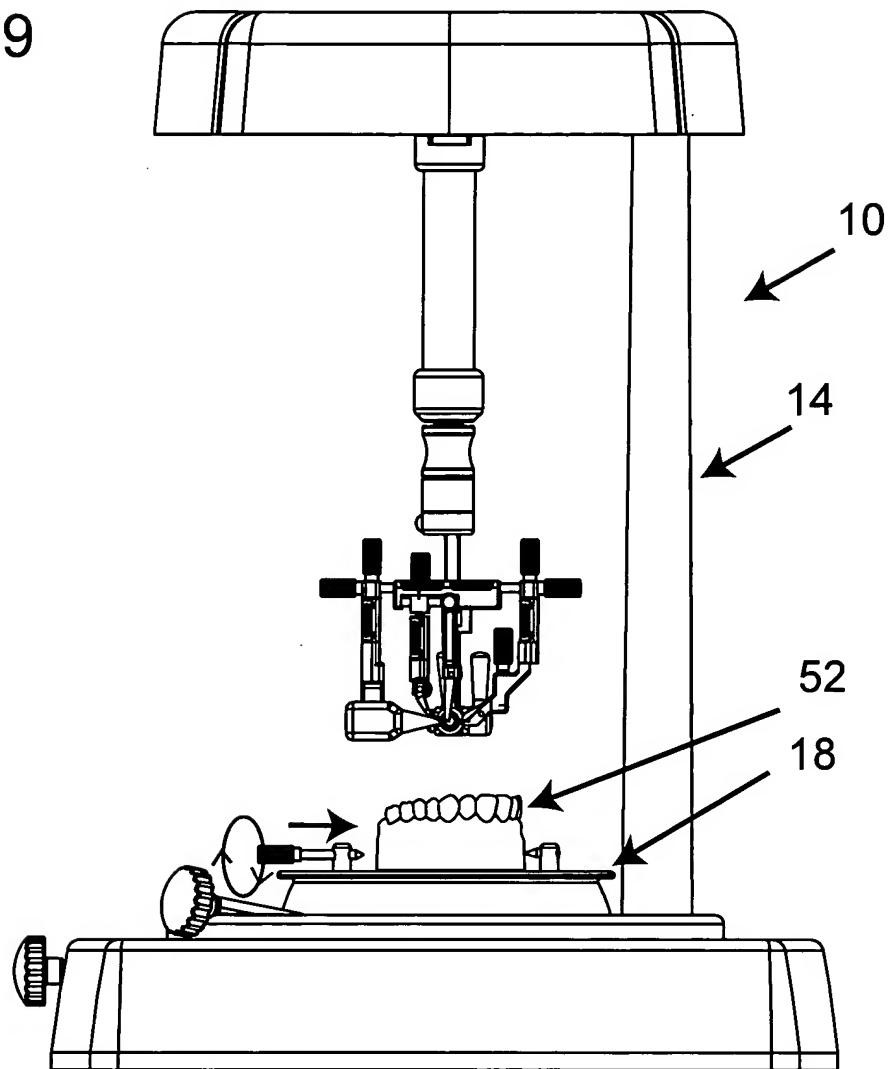


FIG.10

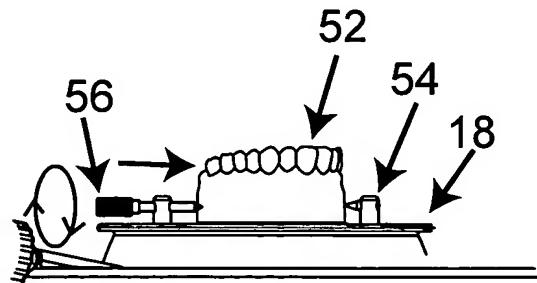


FIG.11

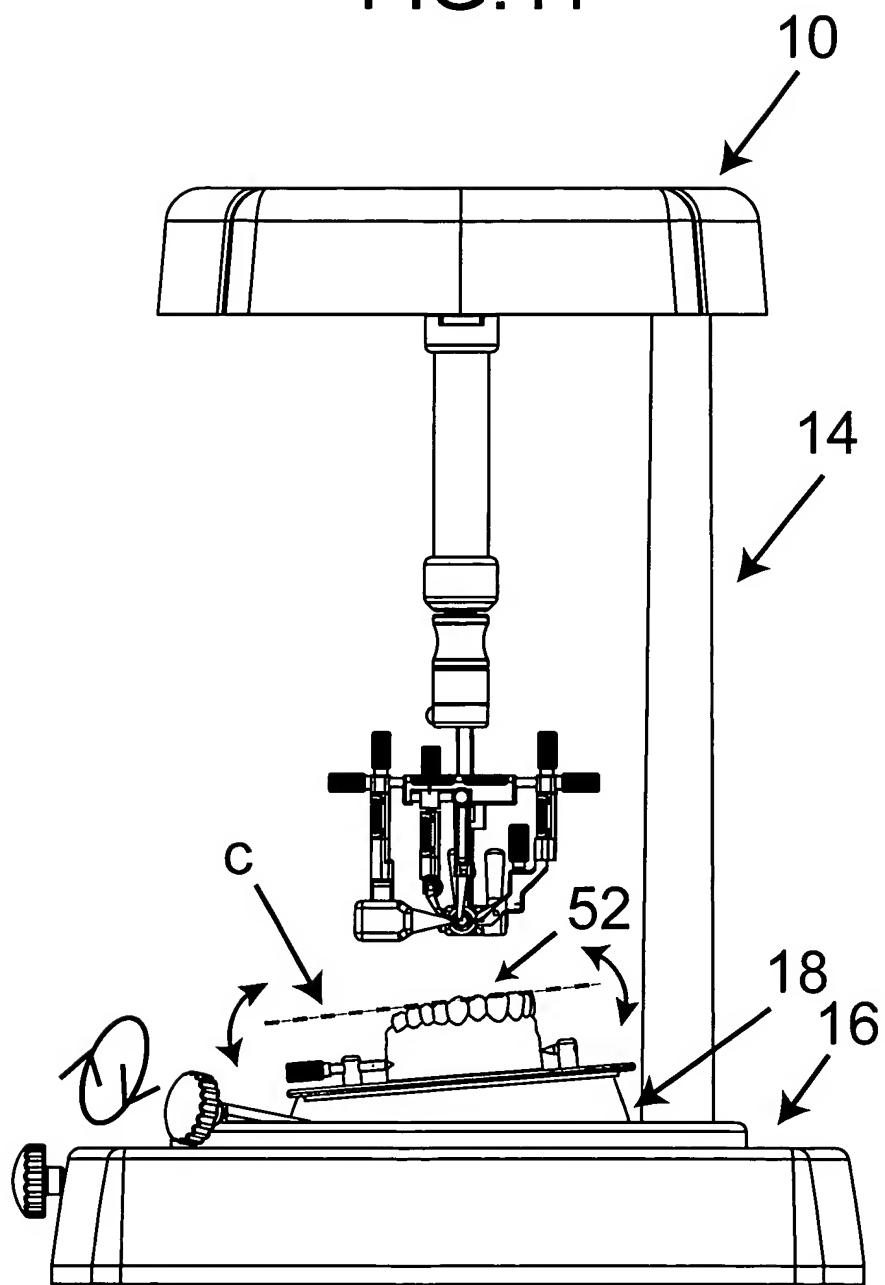


FIG.12

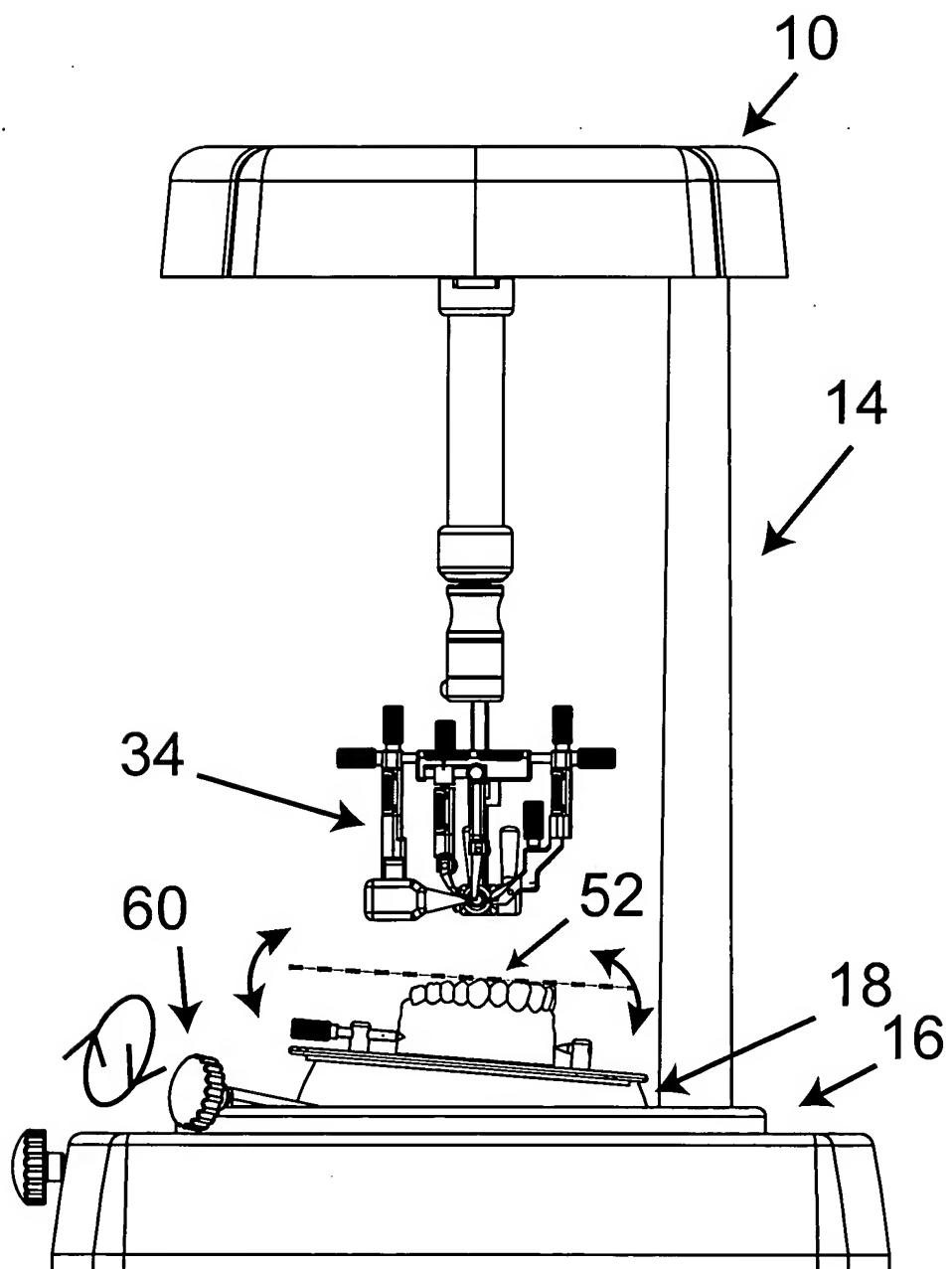


FIG.13

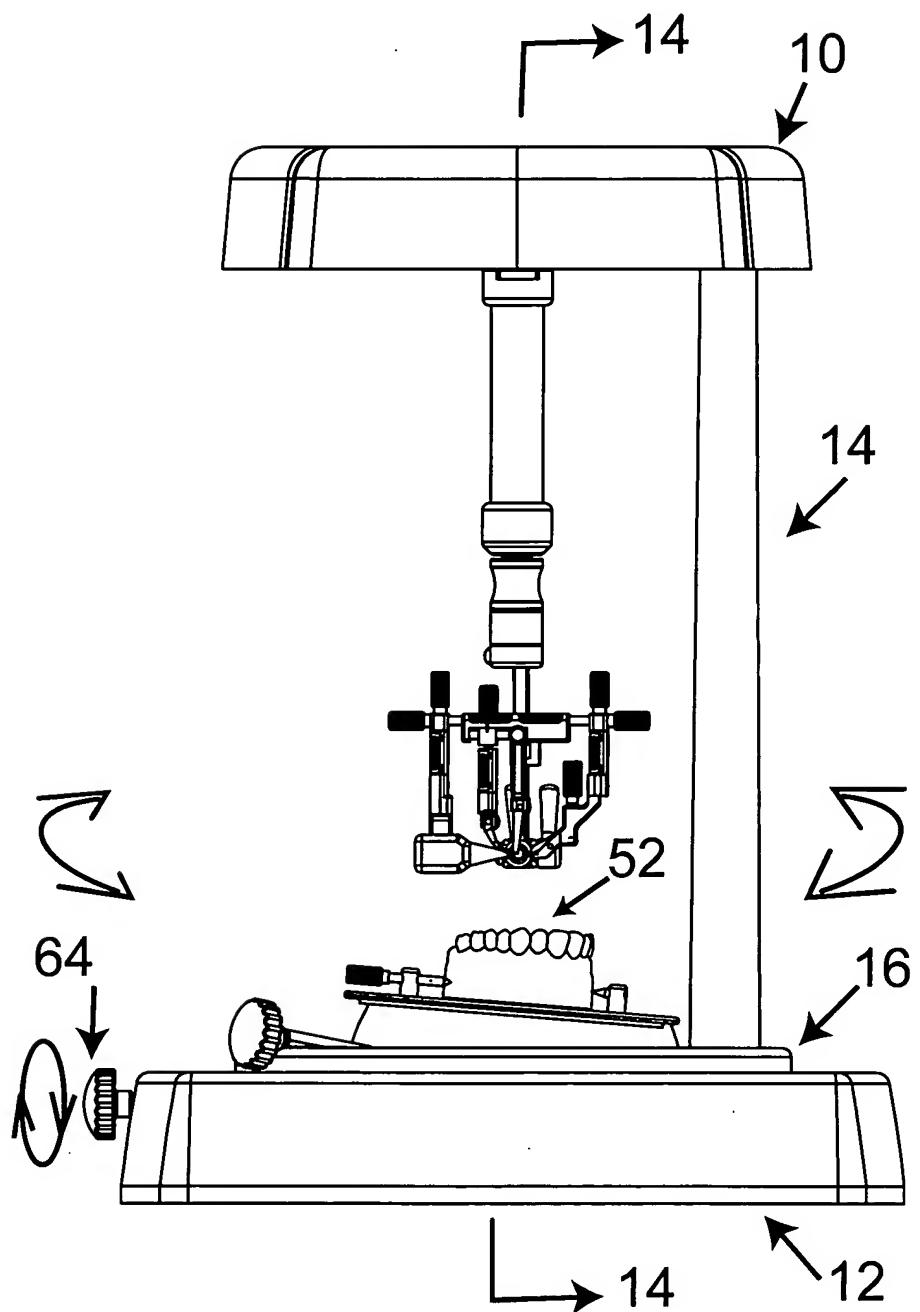


FIG.14

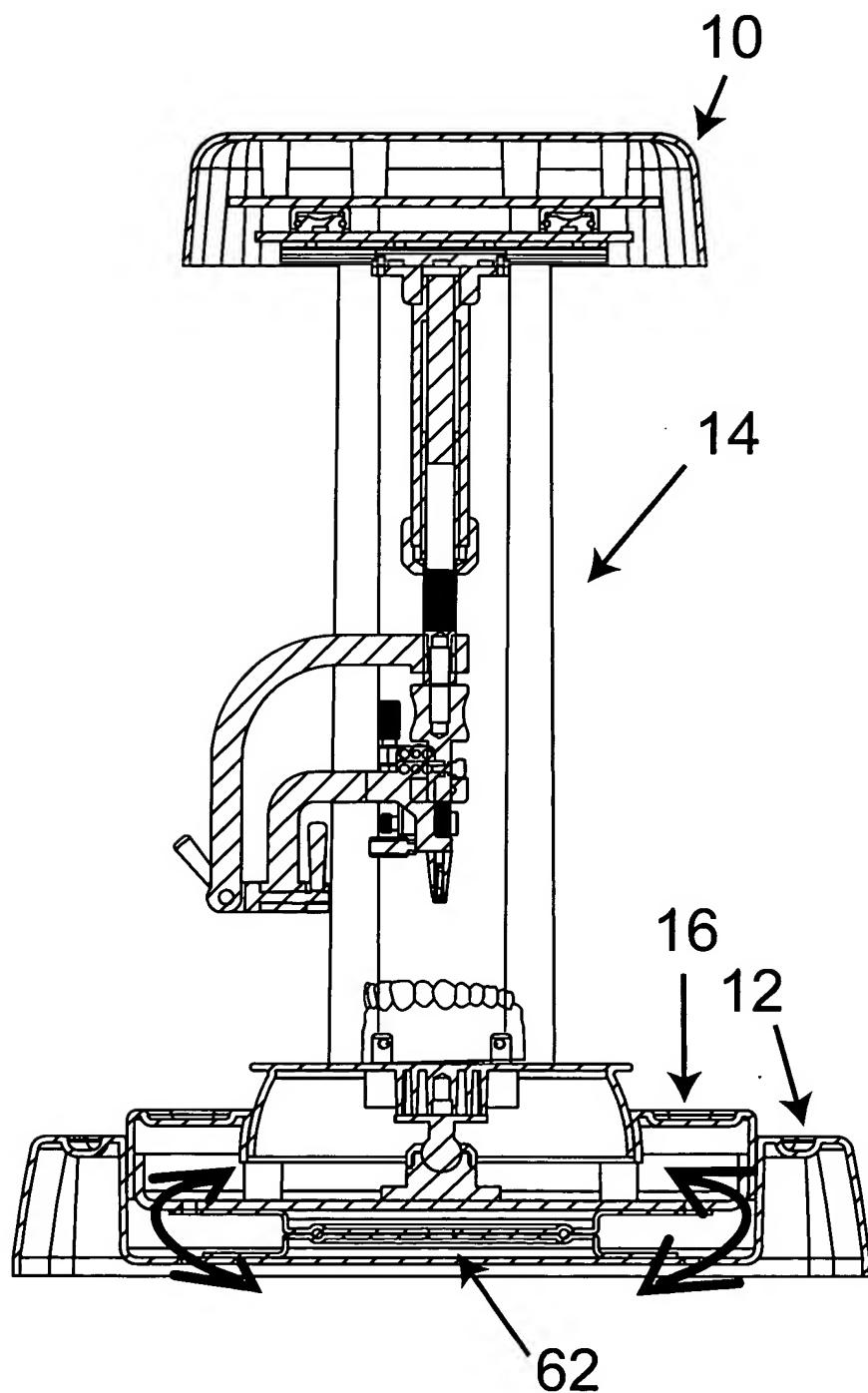


FIG.15

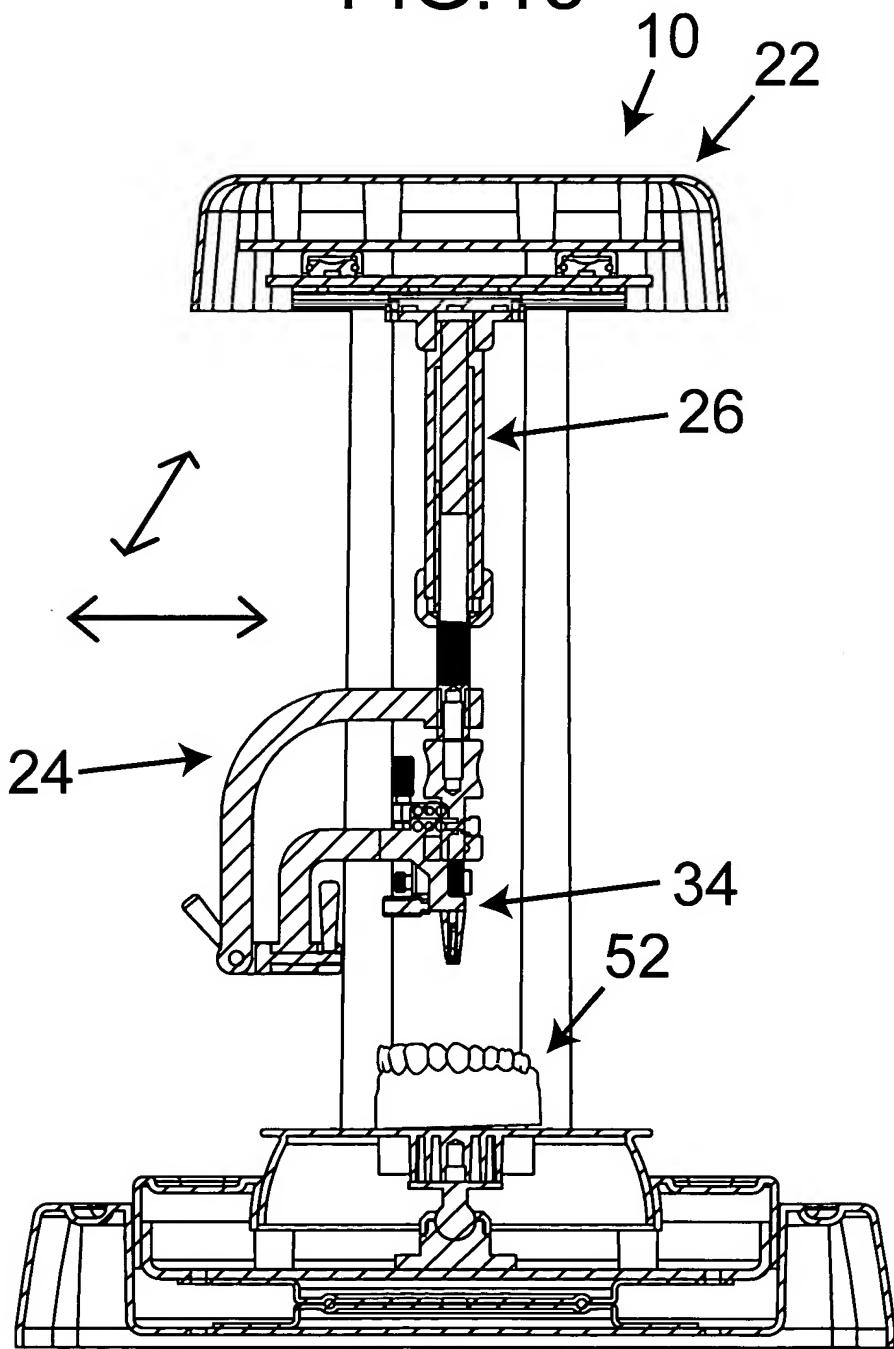


FIG.16

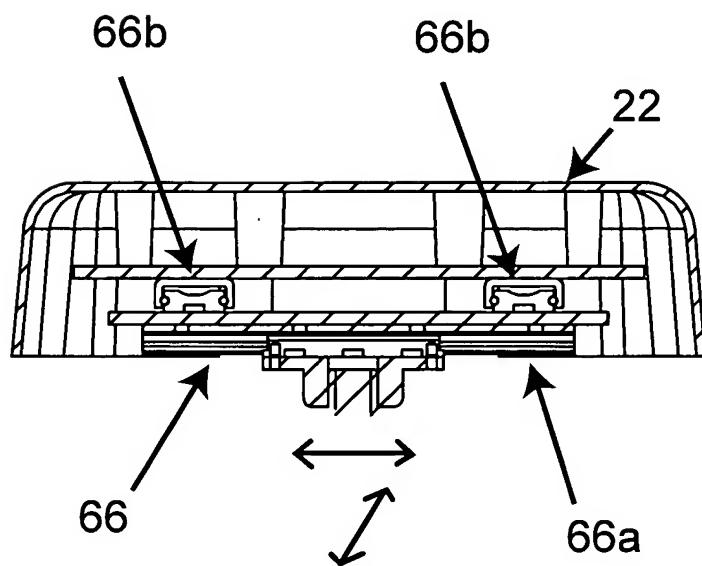


FIG.17

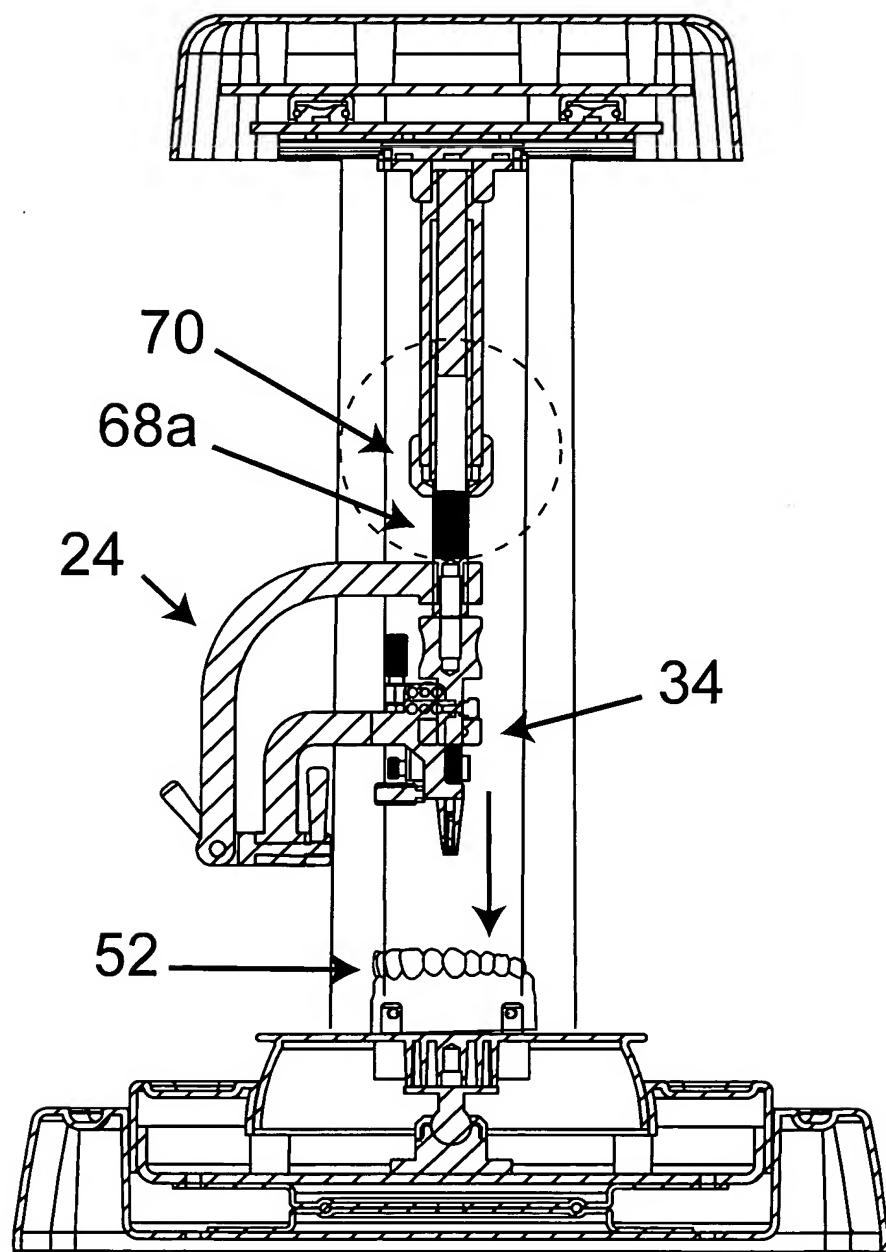


FIG.18

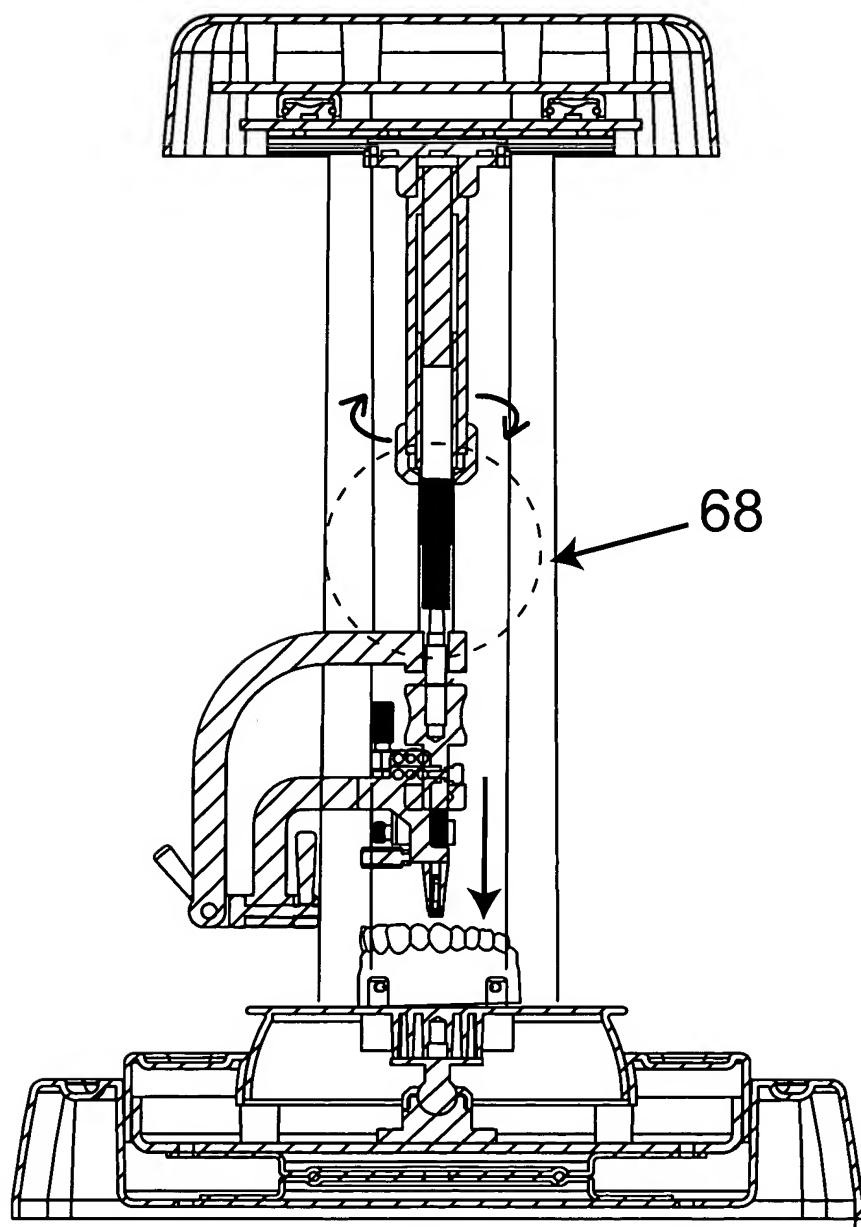


FIG.19

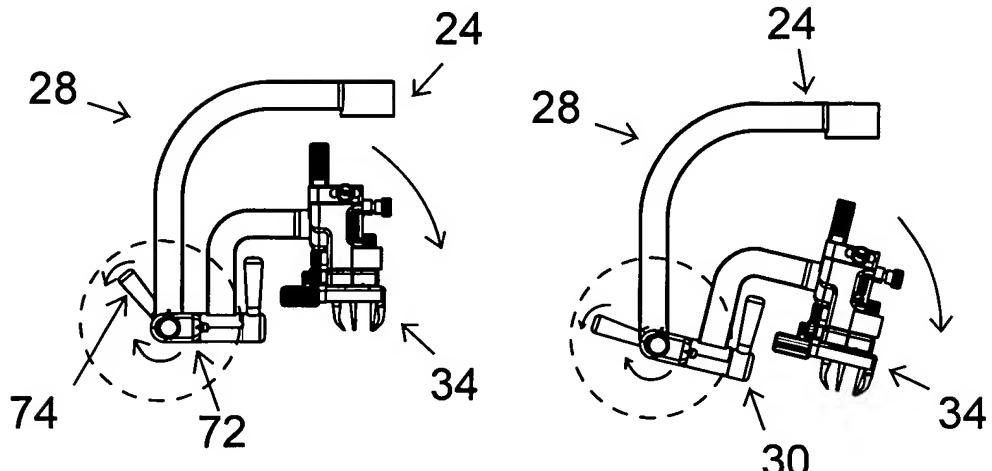


FIG.20

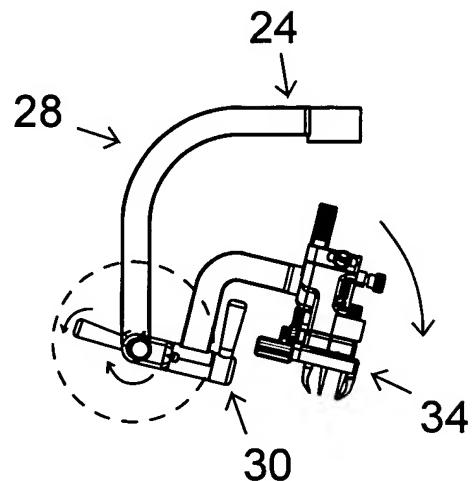


FIG.21

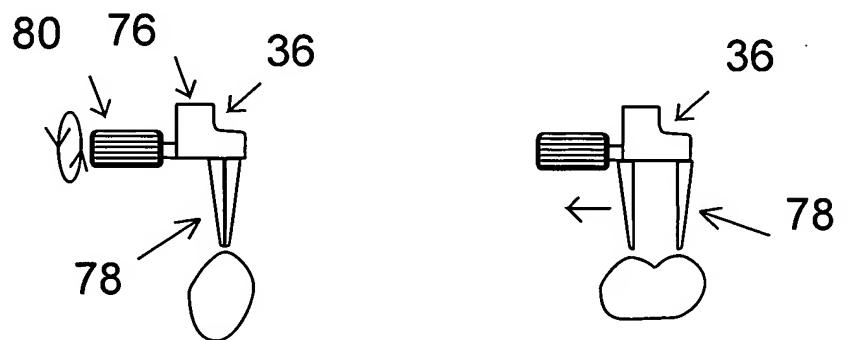


FIG.22

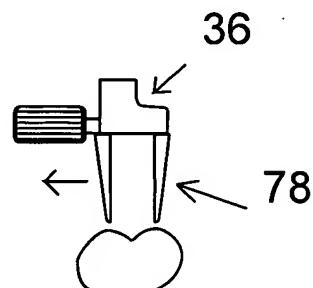


FIG.23

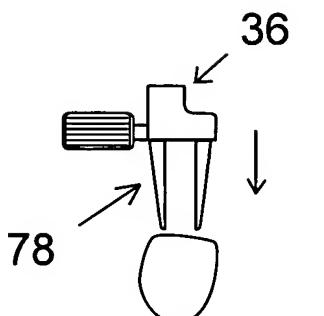


FIG.24

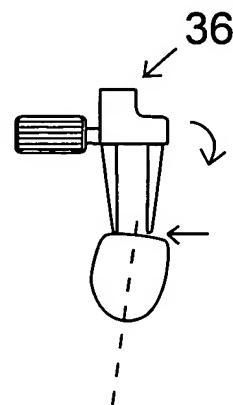


FIG.25

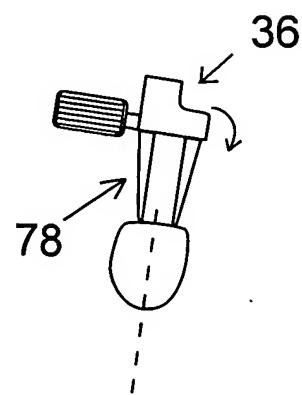


FIG.26

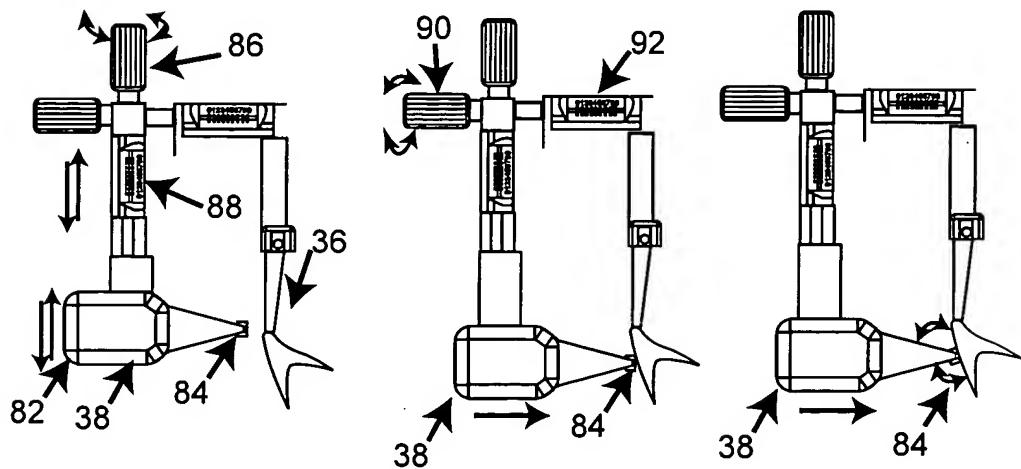
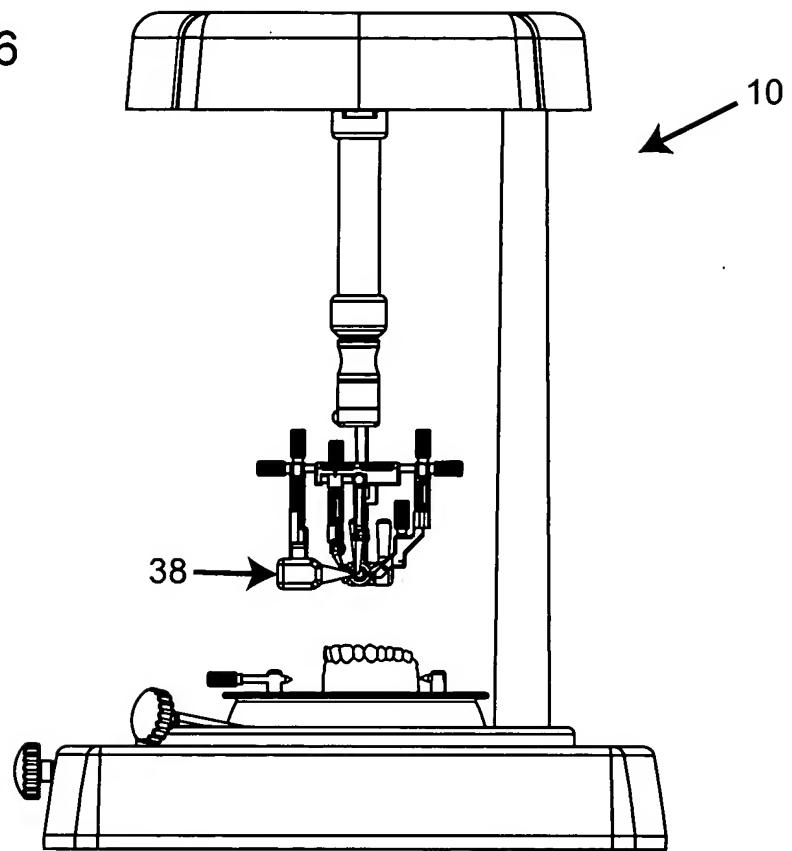


FIG.27

FIG.28

FIG.29

FIG.30

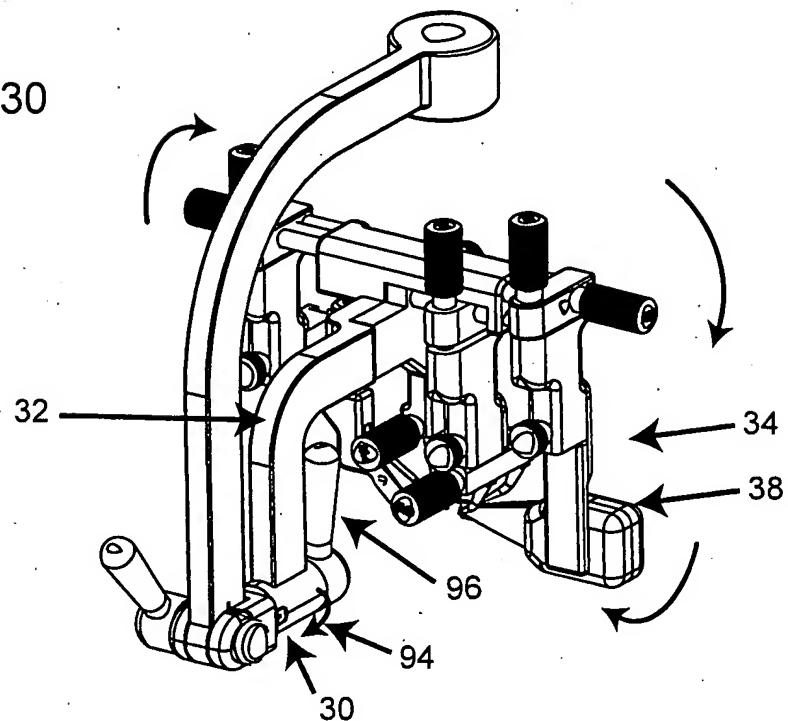


FIG.31

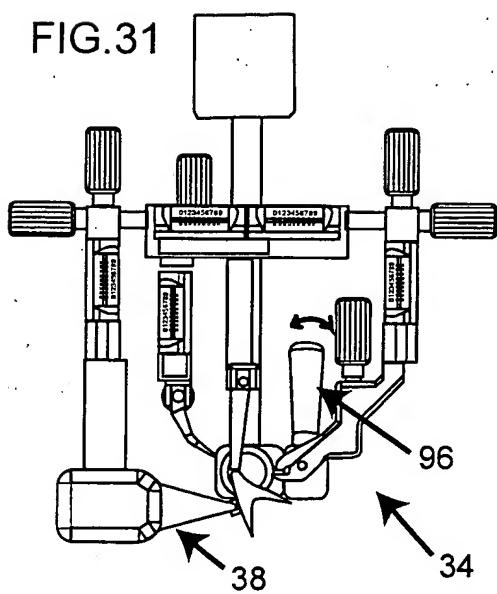


FIG.32

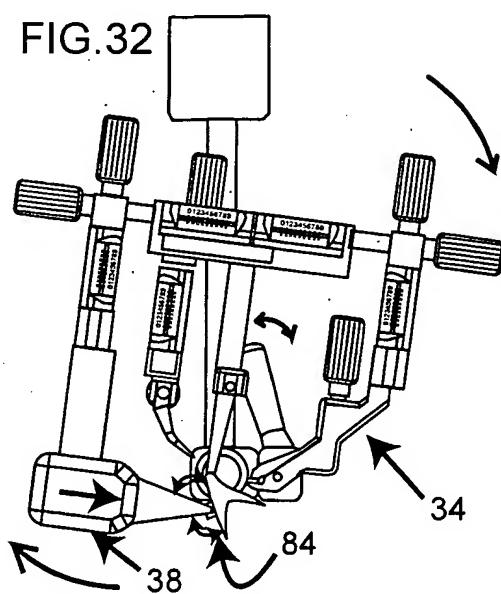


FIG.33

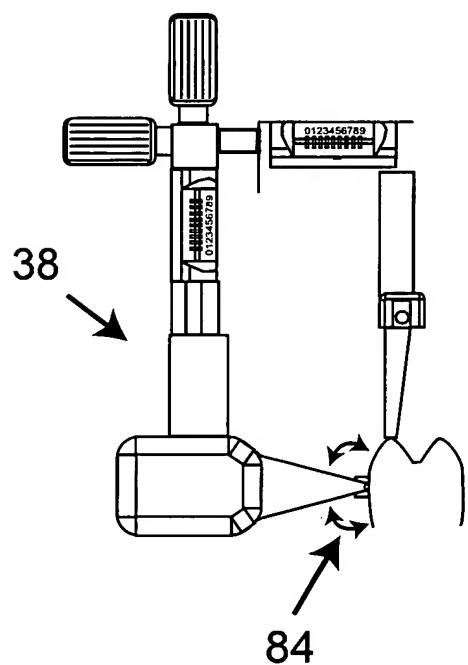


FIG.34

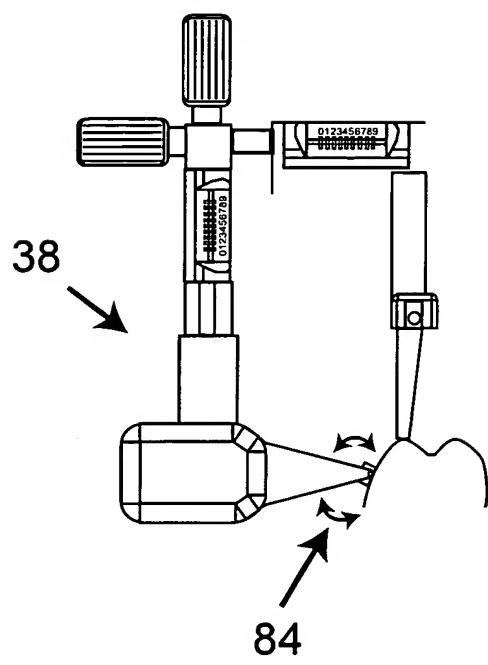


FIG.35

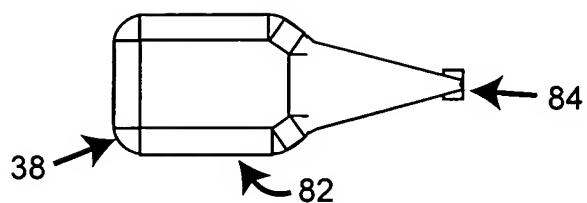


FIG.36

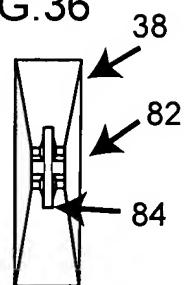


FIG.38

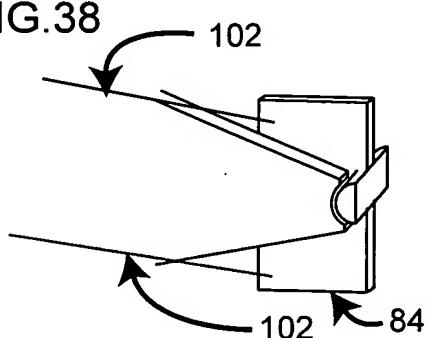


FIG.37

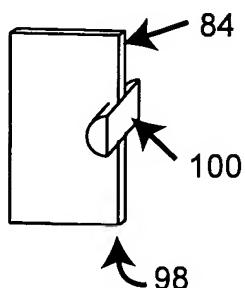


FIG.41

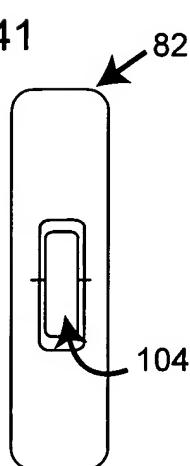


FIG.39

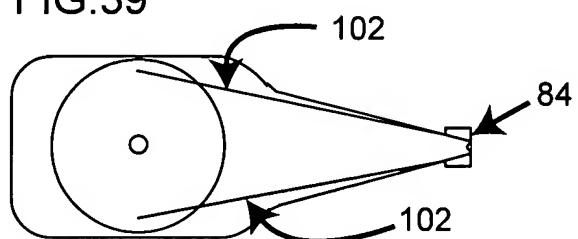


FIG.40

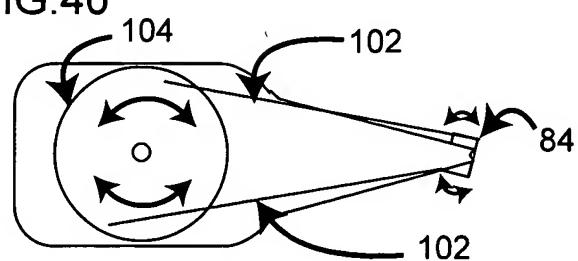


FIG.42

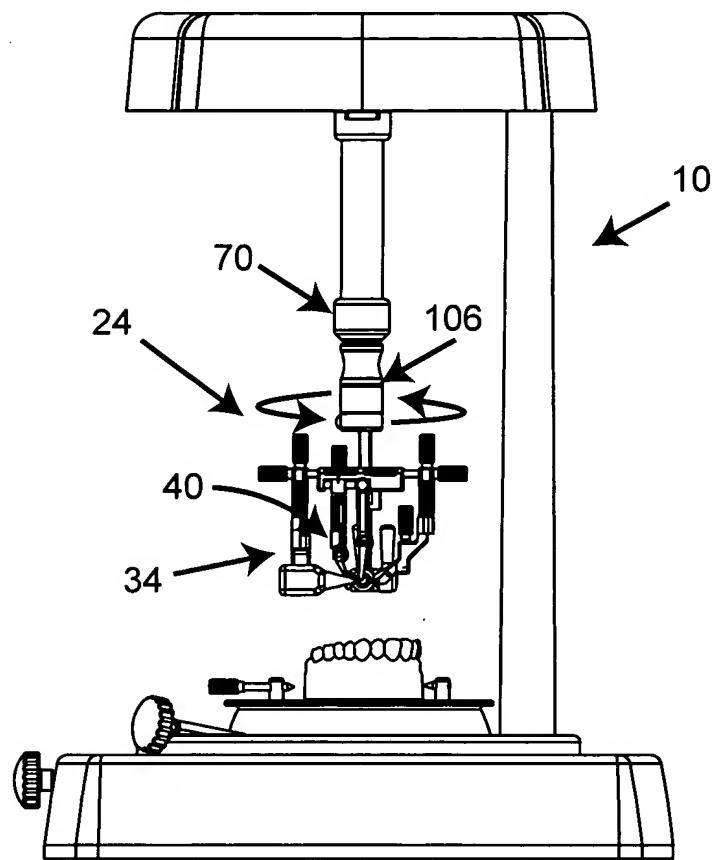


FIG.43

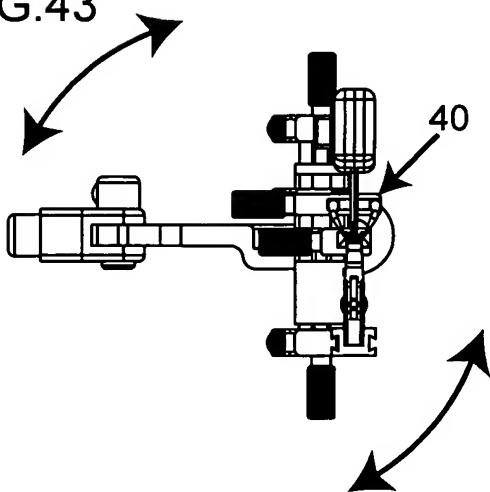


FIG.44

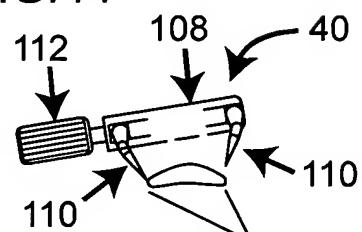


FIG.45

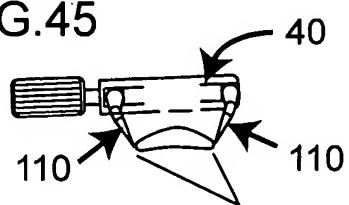


FIG.46

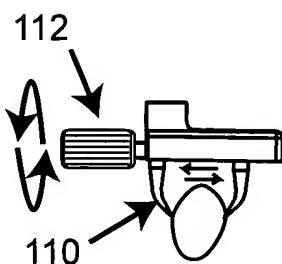
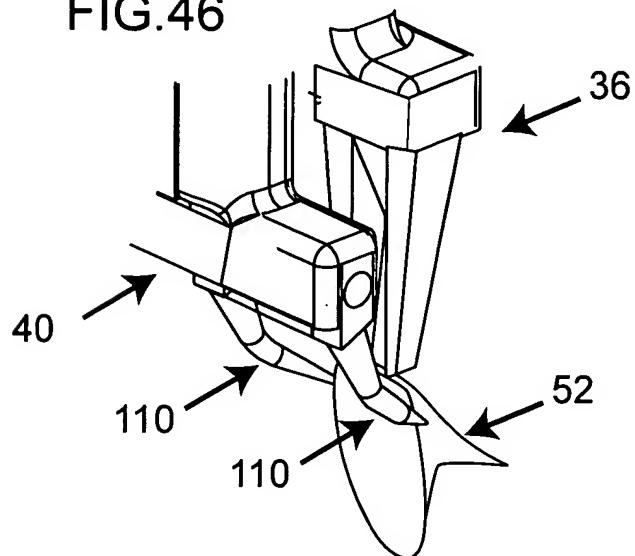


FIG.51

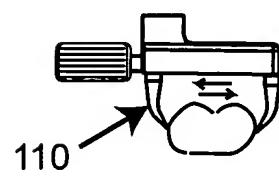


FIG.49

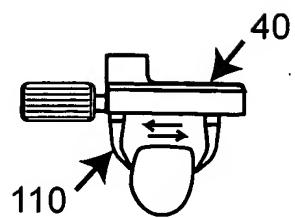
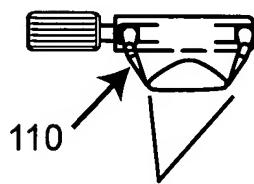
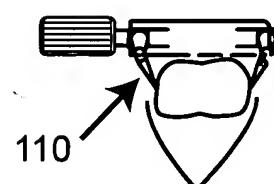


FIG.47



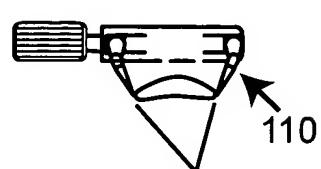
Heights of convexity

FIG.52



Heights of convexity

FIG.50



Heights of convexity

FIG.48

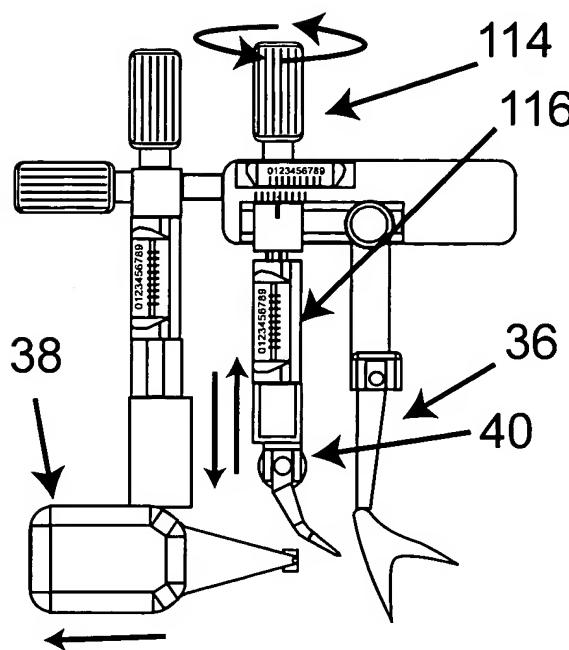


FIG.53

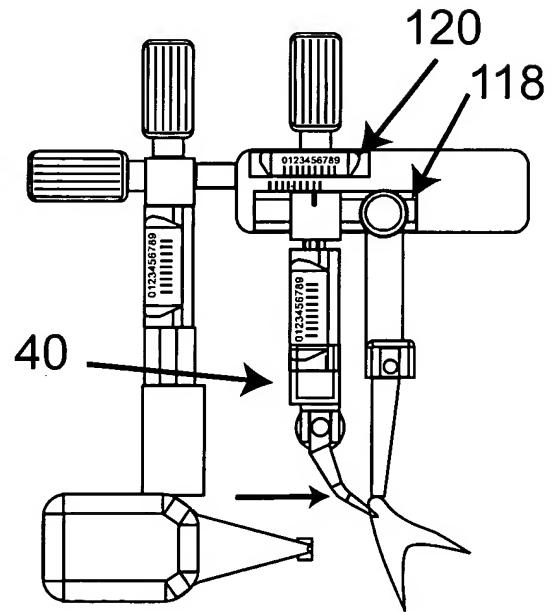


FIG.54

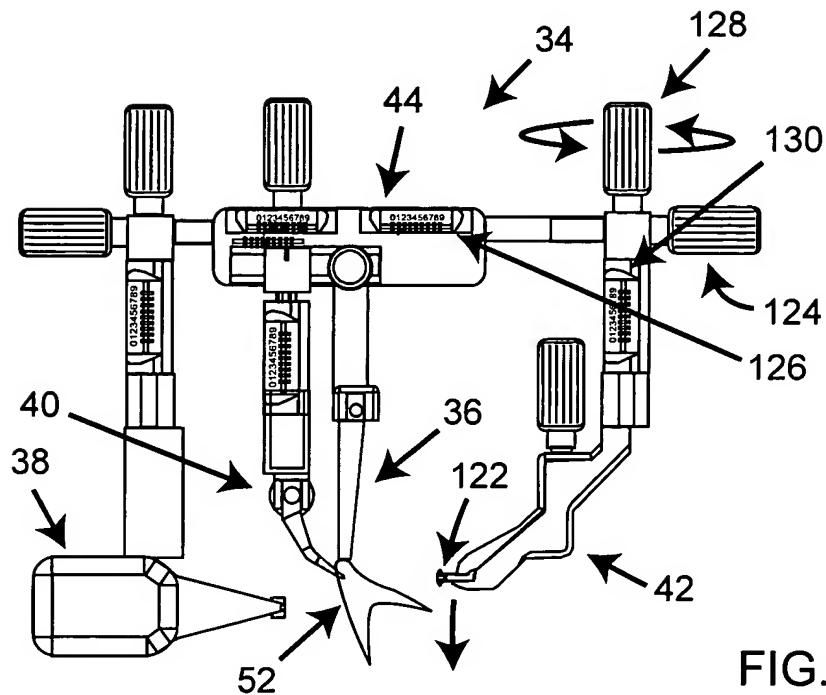


FIG.55

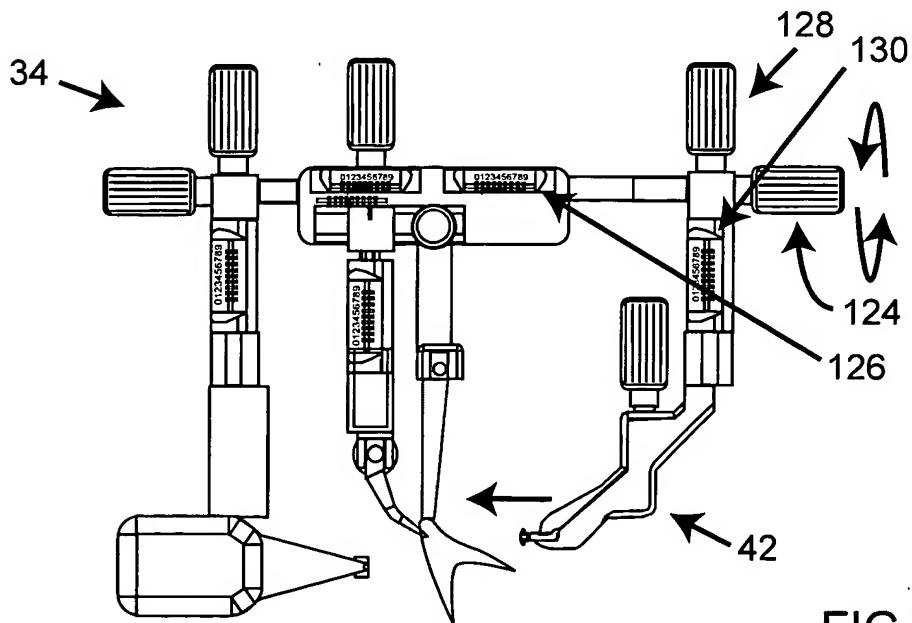


FIG.56

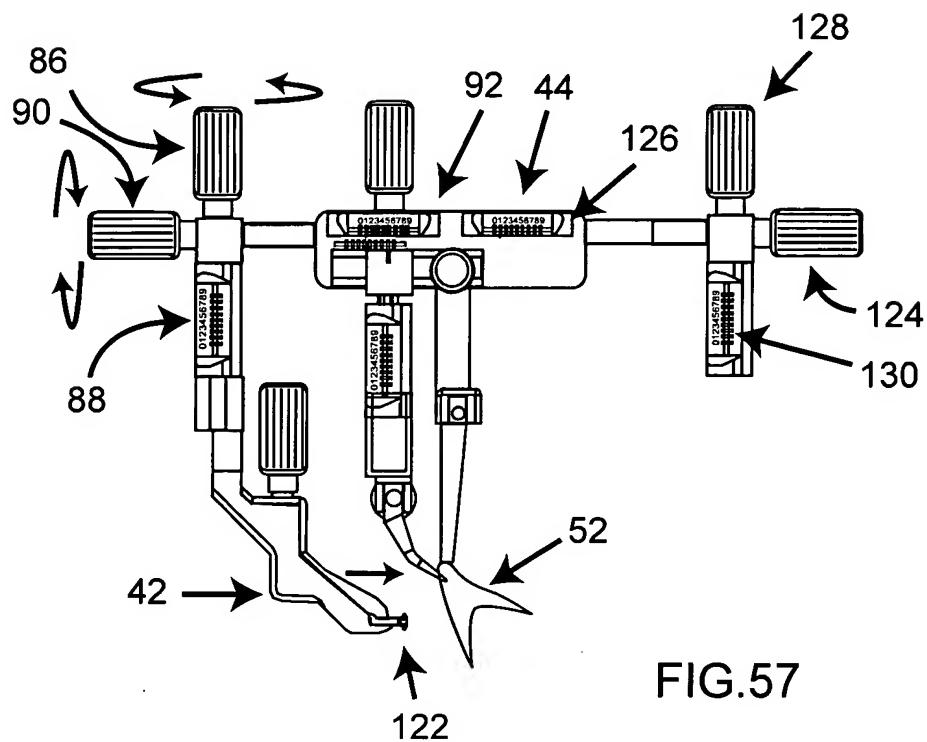


FIG.57

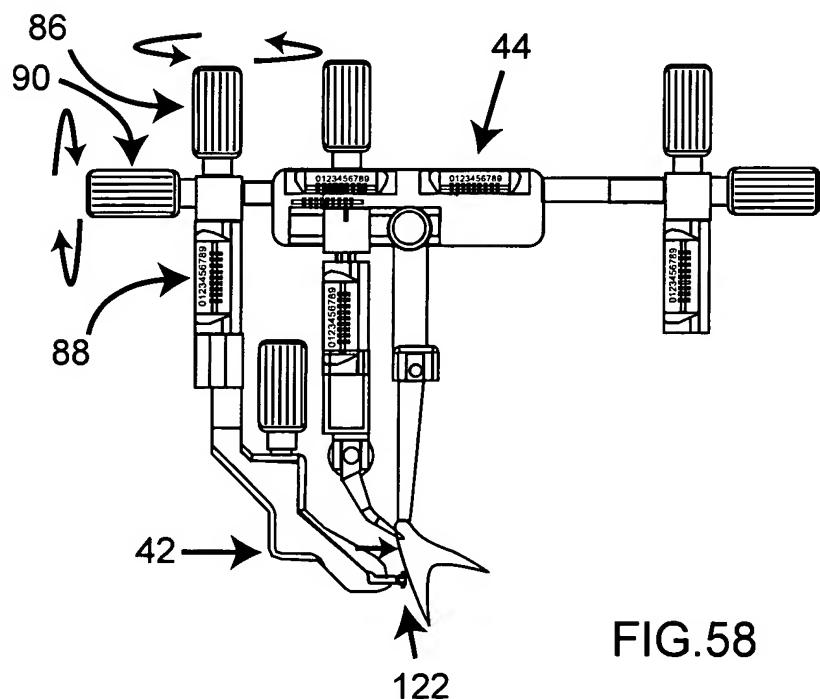
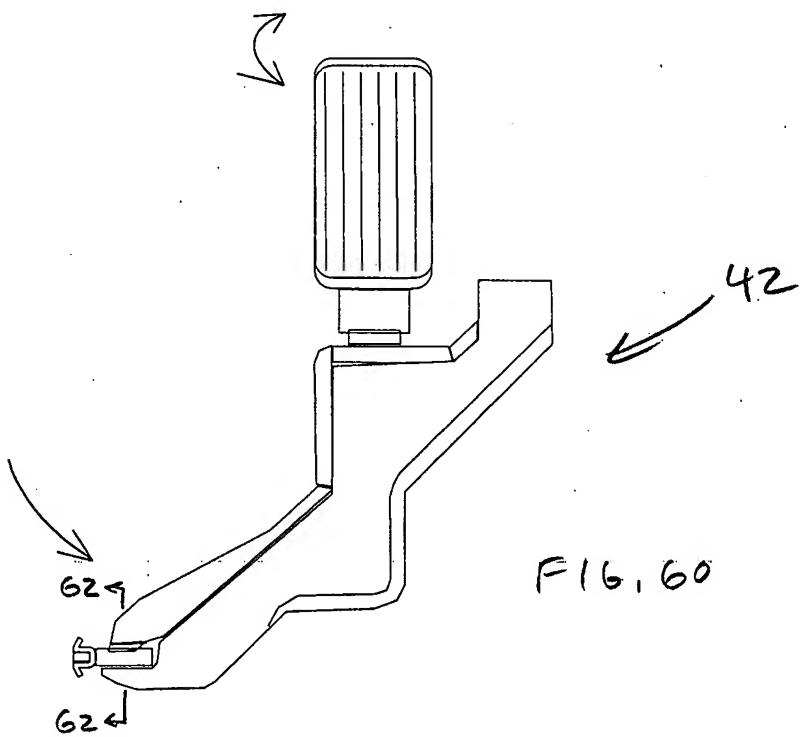
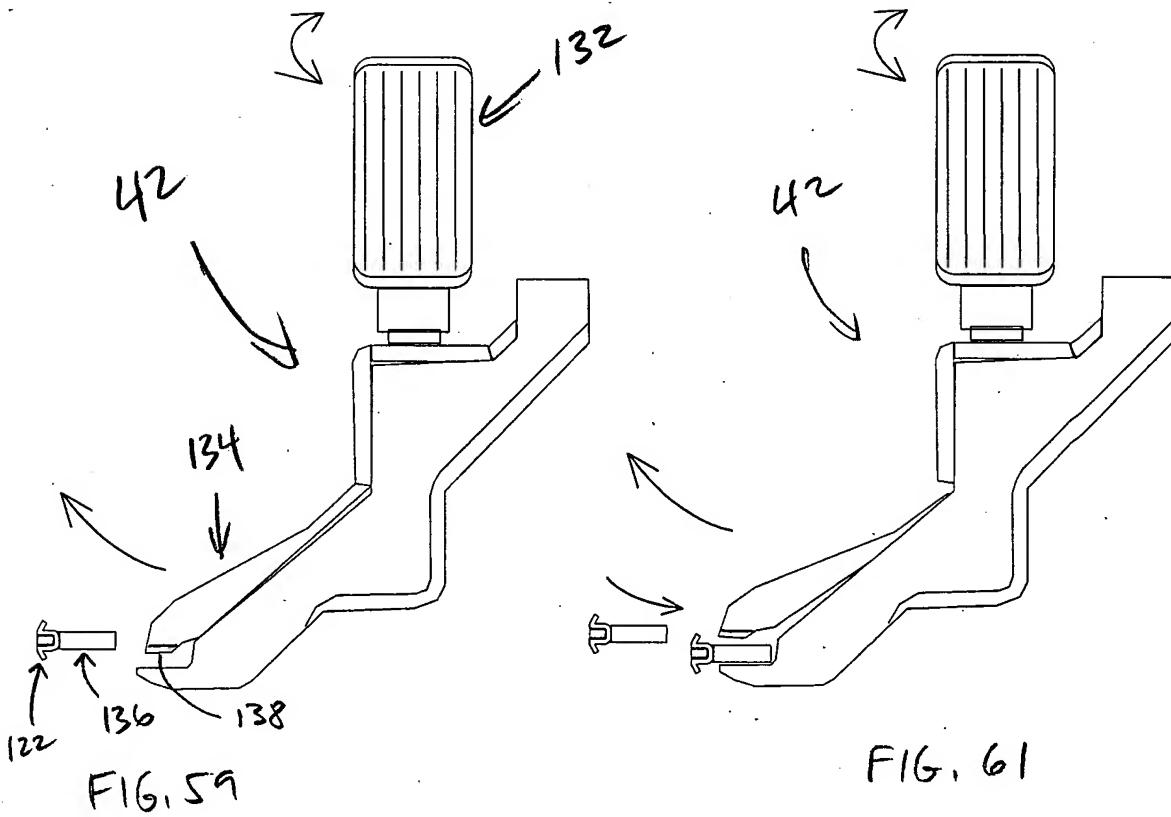
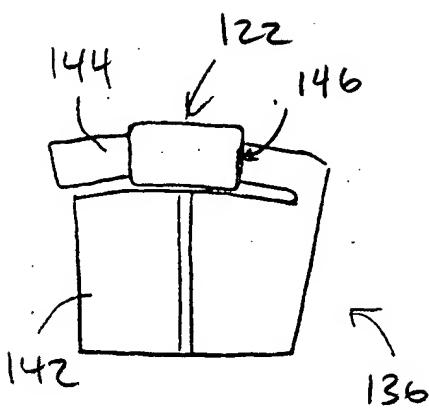
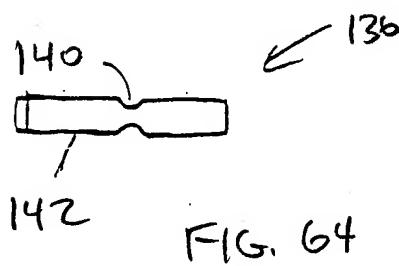
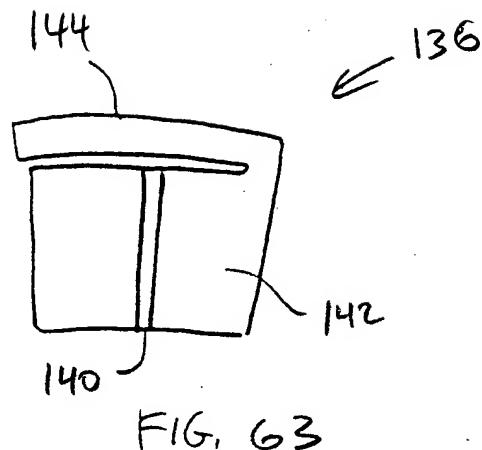
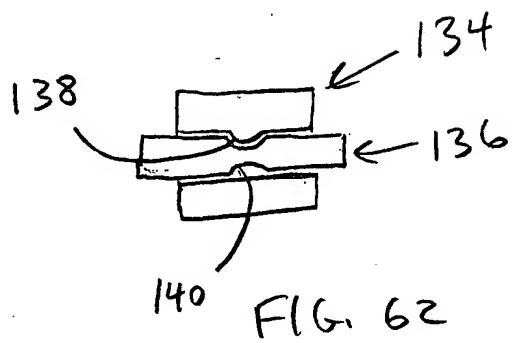


FIG.58





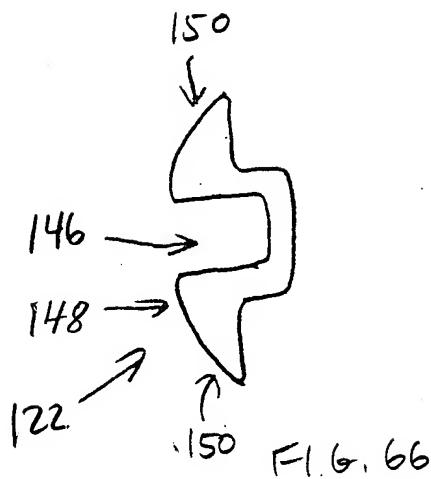


FIG. 66

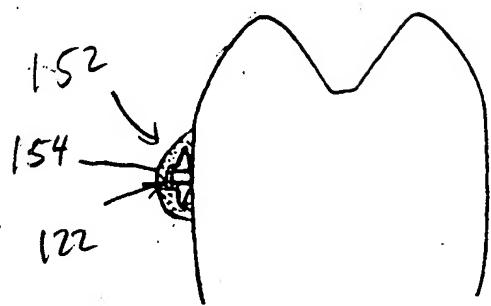


FIG. 67

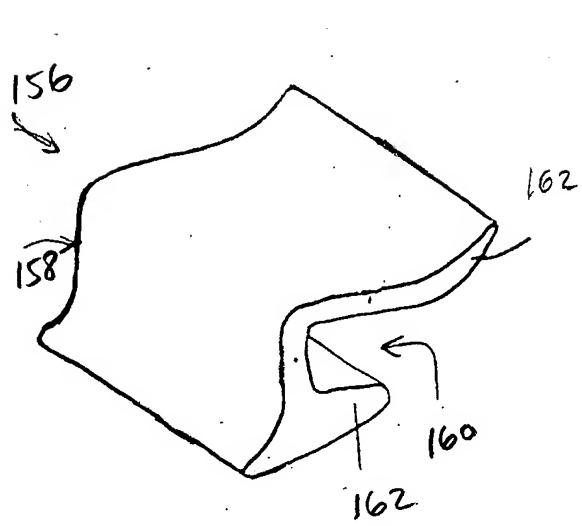


FIG. 68

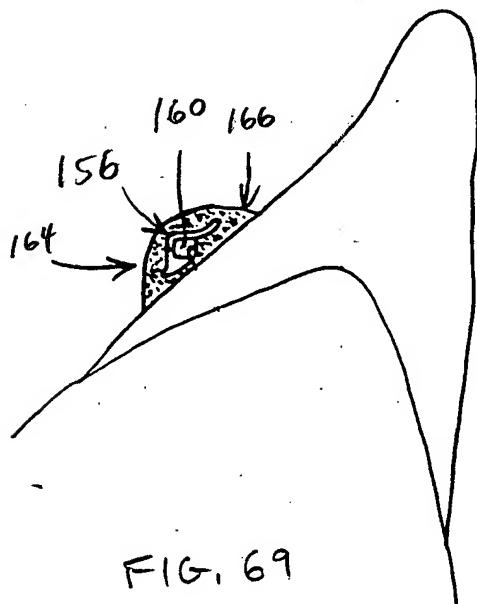


FIG. 69

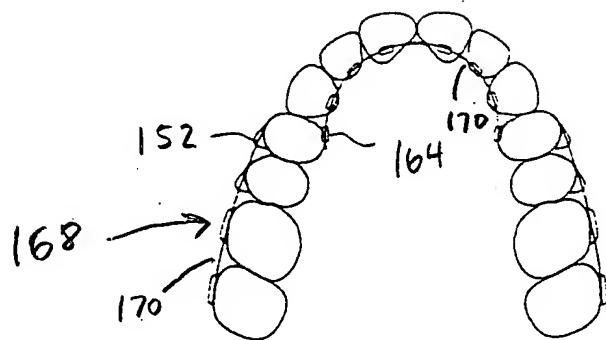


FIG. 70

		Third Molar	Second Molar	First Molar	Second Premolar	First Premolar	Canine	Lateral Incisor	Central Incisor	Central Incisor	Lateral Canine	Canine	First Premolar	Second Premolar	First Molar	Second Molar	Third Molar
Upper Teeth	Tooth ID#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Torque	Pre-determined: average torque (deg)	-14	-14	-7	-7	0	10	17	17	10	-7	-7	-14	-14	-14	-14	← 174
	Torque Chosen (deg)																
Vertical	Pre-determined: vertical offset (mm)	-2.0	-2.0	-1.0	-0.5	0.0	-0.5	0.0	0.0	-0.5	0.0	-0.5	-1.0	-1.5	-2.0	-2.0	← 176
	Reference plane																
	Absolute: vertical chosen (mm)																
"In-Out" Offset	Height (and type) of reference point																
	Width ...actual.. (mm)																
	Width Chosen (mm)																
Lower Teeth	Tooth ID#	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
Torque	Pre-determined: average torque (deg)	-20	-20	-17	-12	-6	-6	-6	-6	-6	-6	-12	-17	-20	-20	-20	← 174
	Torque Chosen (deg)																
Vertical	Pre-determined: vertical offset... (mm)	-1.5	-1.5	-1.0	-0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	-0.5	-1.0	-1.5	← 176
	Reference plane																
	Absolute: vertical chosen (mm)																
"In-Out" Offset	Height (and type) of reference point																
	Width ...actual.. (mm)																
	Width Chosen (mm)																

← 172

FIG.71

		Third Molar	Second Molar	First Molar	Second Premolar	First Premolar	Canine	Lateral Incisor	Central Incisor	Incisor	Central Canine	Incisor	First Molar	Second Molar	First Premolar	Second Molar	First Molar	Second Molar	Third Molar
<b>Upper Teeth</b>	<b>Tooth I#</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
<b>Torque</b>	<b>Pre-determined: average torque (deg)</b>	-14	-14	-14	-7	-7	0	10	17	17	10	-7	-7	-14	-14	-14	-14	-14	174
	<b>Torque Chosen (deg)</b>																		
<b>Vertical</b>	<b>Pre-determined: vertical offset (mm)</b>	-2.0	-2.0	-1.5	-1.0	-0.5	0.0	-0.5	0.0	0.0	-0.5	0.0	-0.5	-1.0	-1.5	-2.0	-2.0	-2.0	176
	<b>Reference plane</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	<b>Absolute: vertical chosen (mm)</b>	2	2	2.5	3	3.5	4	3.5	4	4	3.5	4	3.5	3	2.5	2	2	2	
<b>"In-Out" Offset</b>	<b>Height (and type) of reference point</b>																		
	<b>Width ...actual.. (mm)</b>	3.5	3.5	3.25	3.25	3.75	3.25	3.5	3.25	3.75	3.75	3.75	3.75	3.25	3.5	3.5	3.5	3.5	
	<b>Width Chosen (mm)</b>	3.5	3.5	3.5	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.5	3.5	3.5	3.5	3.5	
<b>Lower Teeth</b>	<b>Tooth I#</b>	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
<b>Torque</b>	<b>Pre-determined: average torque (deg)</b>	-20	-20	-20	-17	-12	-6	-6	-6	-6	-6	-6	-12	-17	-20	-20	-20	-20	174
	<b>Torque Chosen (deg)</b>																		
<b>Vertical</b>	<b>Pre-determined: vertical offset... (mm)</b>	-1.5	-1.5	-1.0	-0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5	-0.5	-1.0	-1.5	-1.5	-1.5	176
	<b>Reference plane</b>																		
<b>"In-Out" Offset</b>	<b>Height (and type) of reference point</b>																		
	<b>Width ...actual.. (mm)</b>																		
	<b>Width Chosen (mm)</b>																		

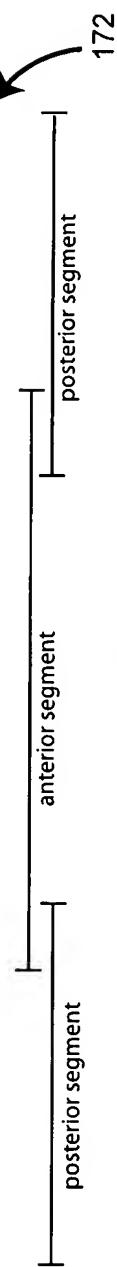


FIG.72